

We claim:

1. A method for reducing or preventing modification of a polypeptide in milk comprising steps:
  - a) providing milk containing a polypeptide susceptible to modification; and
  - b) adding acid to said milk.
2. The method according to claim 1 further comprising a step:
  - c) storing said milk at a temperature below room temperature.
3. The method according to claim 1 further comprising a step:
  - c) isolating said polypeptide from said milk.
4. The method according to claim 2 further comprising a step:
  - d) isolating said polypeptide from said milk.
5. The method according to claim 2 wherein said temperature is about 4<sup>0</sup>C to about -80<sup>0</sup>C.
6. The method according to claim 5 wherein said temperature is about -20<sup>0</sup>C.
7. The method according to claim 2 wherein said polypeptide is an antibody.
8. The method according to claim 7 wherein said antibody is an anti-TNF antibody.
9. The method according to claim 8 wherein said anti-TNF antibody is D2E7.
10. The method according to claim 2 wherein said modification comprises addition of a radical group to said polypeptides, said radical group selected from the group consisting of glycosyl, glucuronidyl, peptidyl, phosphoryl, sulphuryl, farnesyl, acyl, and maleuryl.
11. The method according to claim 10 wherein said radical group is maleuryl.
12. The method according to claim 2 wherein said milk is obtained from a transgenic animal.

13. The method according to claim 12 wherein said transgenic animal is selected from the group consisting of cow, goat, sheep, pig, rat, and mouse.
14. The method according to claim 13 wherein said transgenic animal is a goat.
15. The method according to claim 2 wherein said acid is selected from the group consisting of acetic acid, citric acid, formic acid, and hydrochloric acid.
16. The method according to claim 15 wherein said acid is 2.5M citric acid.
17. The method according to claim 2 wherein said acid is added in an amount sufficient to obtain a pH of said milk of about pH 7.0 to about pH 1.0.
18. The method according to claim 17 wherein the pH of said milk is about pH 3.0 to about pH 3.5.
19. A method for reducing or preventing modification of D2E7 in milk obtained from a transgenic goat, comprising the steps:
  - a) providing transgenic goat milk containing D2E7;
  - b) adding 2.5 M citric acid to said milk in an amount sufficient to obtain a pH of said milk of about pH 3.0 to about pH 3.5; and
  - c) isolating said D2E7 from said milk.
20. A polypeptide isolated from milk treated according to any of the claims 1-19.